

Trip to Currimao

N.W. Luzon

June 12 to March 15, 1907

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IV

Memorandum  
Book

① Ticket to  
Currimao de Salongue  
Jan. 12, 1907.  
P 30.00

Capt. F. D. Burdett.  
Last bird: 14,676.

" mammal: 6351.

Unmunition Feb. 1, 1907:—

75 No. 6 brass  
50 " 8. " "  
125 Buck " & paper.  
20 No. 2. paper  
5 " 1 " "  
15 " BB " "  
15 " 75 Buck. Paper.  
12 " 7 paper  
13 " 6 " "  
135 " 12  
50 Miscellaneous

510 Total no shells no 12 shotgun

Division of Birds.

Trip to Currimao de Salongue  
January 12, 1907. -- Left Manila  
about noon. About noon,  
as we steamed out of the  
River flocks of Larus ridibun-  
das were flying about the  
shipping; and farther out in the  
bay were many Sterna bergii  
borotis. On the river were  
a great many Haliastur intermedius.  
In the parks of Manila were  
✓ Passer montanus, Ethiopsa  
crisatellus, and Scopelia  
striata.

Drove to Currimao de Salongue to  
shoot birds. The road  
was parallel to the shoreline

③ The only mammals seen

were

✓ Coccyzias longirostris ④

✓ Tyrannus verticalis t.

✓ Geothlypis trichas

✓ Geothlypis trichas

✓ Geothlypis trichas

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✓ Geothlypis trichas

(5) *Amberiza*

Mr. J. D. Jones

✓ 1/1/1911

12

✓

1. 1000

11/17/19

2

1

11/11/11

1. The first part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

Wanted to

*[Faint handwritten notes]*

... 1000000 ✓

✓ 7. ... ..

✓ Acci

10

~~Agrius~~ (Cn.)

10

10

Kien... (6)

✓ *Agave americana* L. - 1000

St. Louis, Mo. 1891.

1. *Asplenium adnigrum* L.

1. *Phragmites australis* (Cav.) Trin. ex Steud.

✓ La ley de los tres segundos

✓ *Platanus californica*.

*Volcanus ...*

7

✓

1

(1)

✓

✓

✓

7

Q. Now, when you were  
in the room, did you see them?

✓ Embarriza  
✓ Anthus.      1000      1000

✓

✓ *Alnus glutinosa*  
✓ *Alnus incana*

✓ *Agropyron* *monococcum*

✓ *Siphonophora* *Physalia* *Physalia*

✓ Chlorophyllum luminosa

(8)

$\rightarrow$  The number of points in the set is  $(8)$

✓ AE

There is too much evidence

Verona

✓ *Hydrogonia* (Günther)

✓ Yucca rigida  
11/1/11

1. *Allegro scherzando*  
2. *Andante*

✓ *Thymus sinensis*  
✓ *Thymus sinensis*

✓ *Hydrophilus* *monitor*

✓ *Salmonella* *Salmonella*

✓ 5. The gathering has been held. Done  
✓ 6. The gathering has been held. Done

✓ *Chloranthus* *Chloranthus*

✓ in the road.

✓ *Salvia glabra* L.

✓ *Thymus* *serpyllifolius* *L.*

✓ *Stenogramma papilionacea*

[illegible][illegible]

✓ *Chlorella monila*



[illegible][illegible]





151

[illegible]

16

[illegible]

Jan 18, 1907

Hunted down the right bank of the Laoag River. Sun so bright that the moon was scarcely discernible. Hot! The whole trip was exactly like New Mexico: banks of sand & wide playas along stream with shallow pools in old river channel. Birds were abundant but of few species:

✓ Geopelia striata. - The plaintive notes of this little dove were always heard in the distance in the <sup>tamarind</sup> ~~acacia~~ & bamboo back from the river.

✓ Agialitis (No. 14707) abundant in pairs. Habits like the Killdeer's

✓ Actitis hypoleucos. - Abundant.

✓ Haliastur intermedius

✓ Halcyon gularis

✓ Macrops philippinus

✓ Swifts (Collocalia whiteheadi?).

✓ Large flocks high in air.

✓ Macrops philippinus. - In a tamarind grove. Most in pairs and a normally damaged one; and, soon after saw another white one.

Abundant in tamarinds and bamboo.  
✓ Clivicola sinensis. - Hundreds

I shot 3. One female showed by the oedematous condition of the abdomen that it had been sitting.

✓ Hirundo gutturalis. - Abundant.

✓ Myzomela simplex. - In flocks in tamarind groves near the river.

Notes a sweet, fine, exceedingly high-pitched warble.

✓ Rhipidura nigritorquis. - Abundant.

✓ Lalage niger. - "

✓ Pycnonotus goiavier. - "

✓ Petrophila manilla. - About 6 seen.

✓ Calliope calliope. - Several seen

✓ On the ground & in lower

✓ part of bamboo clumps.

✓ Copsychus mindanensis. - 1 or 2.

✓ Pratincola caprata. - Abundant.

- (19)  
Leisticola — Very abundant  
 in the cane grass patches bordering  
 the Laoag River.
- ✓ Megalurus palustris — do.
- ✓ Acanthopneuste borealis. Abundant.
- ✓ Strophalopneuste nasutus. — "
- ✓ Alonieta lucionensis. — "
- ✓ Picicorvus pygmaeus. — Two. Note  
 like a Titmouse's. In bamboo groves.
- ✓ Molacilla melanope. — Common.
- ✓ Budytes leucostriatus. — Abundant.
- ✓ Mirafra philippinensis. — Among  
 scattered tufts of weeds & grass in  
 sandy wastes bordering the Laoag  
 River. Abundant. Two shot.
- ✓ Oriolus chinensis. — Common.
- ✓ Lamprocorax panayensis. — Few.
- ✓ Corone philippina. — Few.
- ✓ Mammals: Rats, small  
 Bats, and Pteropus edulis are  
 abundant in town.

- Laoag, January 20, 1907. (20)  
 Visited Tribunal, in which is  
 the Post Office; also market;  
 also new rice machine in  
 iron-clad new building with cement  
 floor. The pueblo birds are
- ✓ Lamprocorax panayensis (scarce).
- ✓ Corone philippina (scarce).
- ✓ Oriolus chinensis (abundant).
- ✓ Pycnonotus goiavier ( " ).
- ✓ Cinnyris jugularis (few).

- Jan. 20 to 22, 1907.  
 Went down the R. bank of the  
 Laoag R. The birds seen were:
- ✓ Turdus fasciatus. — One pair  
 in dry field near sandhill.
- ✓ Macropygia tenuirostris. Few.
- ✓ Streptopelia dussumieri "
- ✓ Scopelia striata. — Common.
- ✓ One female was about to lay.
- ✓ Rail. — One (No 14744) in a  
 dry field.
- ✓ Charadrius fulvus. — 2 flocks

- (21)  
*Aegialitis* (14707). - Common.  
*Helictes ~~maui~~ hypoleucos* "  
*Gallinago gallinago*. - One.  
*Acridis acridinosa*. - Two.  
*Haliastur intermedius*  
*Alcedo bregalinus*. - Common.  
*Halecyon gularis* "  
*Merops philippinus* "  
*Alcedo bregalinus* "  
*Tachornis pallidior* "  
*Centropus viridis* "  
*Chalcophaps indica* "  
*Arundinaria gutturalis* "  
*Myzomela simplex* "  
*Ptilinopus melanotus* "  
*Lalage nigra* "  
*Pyrenestes goiavier* "  
*Petrophila manilla* "  
*Coryphenus mindanensis* "  
*Pratincola caprata*. "  
*Castroville* (No. 1474). - "  
*Megalurus palustris*. - "  
*Pseudophaps borealis*. - "

- (22)  
*Cephalophanes nasutus*. - Common.  
*Alcedo bregalinus*. - Common.  
*Cinnyris jugularis*. - "  
*Molucella melanope*. "  
*Budytes leucostriatus*. - "  
*Arctops rufulus*. - "  
*Micropus philippinus*. - "  
*Emberiza* - - - 2  
*Timorinus asperus hyemalis*  
*Abundant*.  
*Oriolus chinensis*. - Abundant.  
*Lamprocorax panayensis*. - "  
*Corone philippina*. - "

Jan. 23 & 24 1907.

On Jan. 23 walked out the  
 Vintar road and took the  
 trail over the sandhills  
 on Jan. 24 drove to Vintar  
 Lake. Birds seen!

- Gallus gallus*. - Two seen on trail.  
*Turnix ocellata*. - One do + 1  
*Macropygia tenuirostris*. - Few.  
*Streptopelia dussumieri*.

- (23)  
*Leopelia striata*. - A few.  
*Chalcophaps indica*. - do  
 Rail (No. 14744). - Three seen.  
 ✓ Two on margin of Vintar Lake.  
 ✓ & one on dry roadside.  
*Gallinula chloropus*. - Abundant.  
 ✓ Shot on Vintar Lake.  
*Podiceps philippinensis*. - Abun-  
 ✓ -dant on Vintar Lake. - 2 shot.  
*Actitis hypoleucos*. Vintar Lake.  
*Myzocopterus glaucola*. - do  
 ✓ *Gallinago gallinago*. - do  
*Pyrroherodia maculirostris*. - 1 do  
*Bubulcus coromandus*. - 1 shot "  
 ✓ Big Brown Hawk. Vintar Lake.  
*Haliaastur intermedius*  
 ✓ *Alcedo bangalensis*. 12  
 ✓ *Halcyon gularis*. - Common.  
*Merops philippinus*. - "  
 ✓ *Centropus viridis* "  
 ✓ " (*gavainia? suspensus*) "  
 ✓ *Cliverea sinensis* "  
 ✓ *Herindo gularis* "

- ✓ *Rhipidura nigritorquis*. - Common.  
 ✓ *Lalage niger*. - Common.  
 ✓ *Pycnonotus goiavier*. - "  
 ✓ *Ptilophila manilla*. - "  
 ✓ *Calliope calliope*. Bamboo.  
 ✓ *Pratincola caprata*.  
 ✓ *Cisticola*  
 ✓ *Megalurus palustris*  
 ✓ *Cephalophonus nasutus*.  
 ✓ *Otona lucionensis*  
 ✓ *Certhia jugularis*. - Vintar Lake.  
 ✓ *Motacilla melanope*  
 ✓ *Budytes leucostriatus*  
 ✓ *Anthus rufus*.  
 ✓ *Myiagra philippinensis*. - Old  
 ✓ rice paddies.  
 ✓ *Emberiza* - Common  
 ✓ *Corone philippinus*.

Many small snakes on edge of  
 Vintar Lake - similar to one small  
 striped snake in U.S. None were  
 preserved. This is the only spot in the  
 P. I. where snakes were <sup>really</sup> numerous.

January 27, 1907.

Went duck shooting with Capt. Harbom to <sup>Paoay</sup> ~~Swat~~ Lake, 6 miles. A lake 10 or 12 miles in circumference. Birds shot:

- ✓ 1 *Fulica atra*
- ✓ 2 *Anas luzonica*
- ✓ 1 *Marca penelope*
- ✓ 7 *Fuligula fuligula*
- 11 Total.

Birds seen: *Gallus gallus*. 14.

- ✓ *Turnix ocellata*. - One.
- ✓ *Macropterygia temurostris*. - Several.
- ✓ *Streptopelia dussumieri*. - "
- ✓ *Geopelia striata*. - Many.
- ✓ *Chalocophaps indica*. - Few.
- ✓ *Poliolimnas cinereus*. - 1 on the Lake.
- ✓ *Fulica atra*. - One shot.
- ✓ *Podiceps philippinensis*. - Abundant.
- ✓ *Ochthodromus*. - One on the Paoay River.

- ✓ *Aegialitis* (specimen). - Paoay R.
- ✓ *Actitis hypoleucos*. - Lake + River.
- ✓ *Dendrocygna* sp. - On the Lake.
- ✓ *Anas luzonica*. - Ducks like same duck. Hundreds on Lake. Shy.
- ✓ *Marca penelope*. - 1 shot on L.
- ✓ *Spizula clypeata*. - Flocks on Lake.
- ✓ *Fuligula fuligula*. - Hundreds on the Lake. Same.
- ✓ *Haliaeetus intermedius*. - Everywhere at Lake.
- ✓ *Falco peregrinus*. - Shot at adult on Paoay River near Paoay.
- ✓ *Urocyon bengalensis*. - Abundant on Lake.
- ✓ *Halcyon gularis*. - On the Lake + everywhere.
- ✓ *Merops philippinus*. - Abundant on the Lake + elsewhere.
- ✓ *Cacomantis merulinus*. - Heard at dusk. The first one noted here.
- ✓ *Centropus viridis*.
- ✓ *Cliverea riparia*. - Common. Lake.
- ✓ *Arundo gullularis*. - do

- (27)
- Myzomela simplex*. - Abundant.
- ✓ Singing its high-pitched song.
- ✓ Was beside the Lake.
- Rhipidura nigrolongirostris*. - Everywhere.
- Lalage niger*. - Abundant. Lake.
- Cyanonotus goiavier*. - Abundant.
- Chlorophila manilla* Lake, etc.
- Ogalinola caprata*. - do.
- Leucicola* do.
- ✓ *Megalurum palustris* do.
- ✓ *Zanthopneuste borealis* do.
- Echtholophus pusillus* do.
- ✓ *Clonetta, maculosa* do.
- Coccyzus regularis* do.
- Motacilla melanope* do.
- ✓ *Dactyltes leucostriatus*. do.
- ✓ *Anthus regulus* do.
- Muscicapa philippinensis* do.
- ✓ *Emberiza* do.
- ✓ *Munia hypoleuca* do.
- ✓ " *zoster* do.
- ✓ " *calamensis* do.

- (28)
- ✓ *Oriza chinensis*. - Lake.
- ✓ *Corone philippina*. - do.
- February 5, 1907. - Spent the day hunting Ducks on Paoy Lake, starting early.
- ✓ Birds seen: - *Turnix fasciata*. - Several on trail and Lake shore.
- Turnix ocellata*. - Several on Lake shore.
- Macropygia tenuirostris*. - Several.
- Streptopelia dussumieri*. - Abundant.
- ✓ *Cuopopelia himalis*. - Several pairs on lake shore & trail.
- ✓ *Streptopelia striata*. - Abundant do.
- Chalcophaps indica*. - " "
- ✓ *Hypotaenidia*. - " "
- ✓ *Poliolimnas cinereus*. - Abundant all around. Paoy Lake.
- ✓ *Gallinula chloropus*. - do.
- ✓ *Fulica atra* do.
- ✓ *Podiceps philippinensis* do.
- ✓ *Ochthodromus* Abundant on the Laoag River.

- (29)
- Agallitis - Abundant  
on the Laoag River + Lake Paoy.
- Actitis hypoleucos. - do
- Gallinago megala. - Lake Paoy.
- Hydrophasianus chirurgus. - Flocks  
on Lotus leaves of Paoy Lake.
- Ardeetta sinensis. - Abundant  
on Paoy Lake.
- Ardeetta cinnamomeus. - do.
- Dendrocygna - 7 flocks,  
of hundreds. Six shot.
- Anas luzonica. - The Ilocanos  
capture many of this & other  
species of ducks in nets, at  
night, on Paoy Lake.
- Redhead or Poacherd. - Many  
ducks with red heads & canvas  
backs seen. One shot, not recovered.
- Marca penelope. - Several small flocks.
- Anas acuta. - Three seen  
on Paoy Lake, flying together.
- Platula clypeata. - Several  
flocks on Paoy Lake.

- (30)
- Fuligula fuligula. - Many  
good-sized flocks.
- Large Hawk. - Shoulders  
white or buff, dark on under  
surface of body. Two.
- Haliastur intermedius. - Paoy.
- Falco peregrinus. - One tried  
to catch a chicken in Laoag, &  
one on Laoag River.
- Cerchneis trinniculus. -  
Capt. Hasbrouck saw one  
between Santa Matilda to Bana  
guy, Febr. 2, 1907.]
- Loriculus philippensis. - One  
seen near Paoy Lake.
- Alcedo bengalensis. - Abundant  
many on Paoy Lake.
- Halcyon fulans. - Abundant.  
Several on Paoy Lake.
- Halcyon chloris. - One on  
Paoy Lake. <sup>Thorp</sup> first noted in Ilocos Norte.
- Merops philippinus. - Abundant  
Especially so on Paoy Lake.



- ✓ Heavily spotted bird. - One on
- ✓ Paoy Lake. One noted before.
- ✓ Cacomantis merulinus.
- ✓ Centropus viridis
- ✓ Salicicola sinensis Laog
- ✓ River + Paoy Lake.
- ✓ Hirundo gutturalis do
- ✓ Seyornis philippinensis. - Two on
- ✓ trail to Paoy Lake to Laog.
- ✓ Gerygone simplex. - Paoy
- ✓ Lake + Laog River.
- ✓ Chlidura nigritorquis. - Everywhere
- ✓ Lalage rugica. - do
- ✓ Pycnonotus goiavier. - do
- ✓ Petrochelidon manilla do
- ✓ Copsychus mindanensis. - Several
- ✓ Pratincola coprota. - Everywhere
- ✓ Cisticola "
- ✓ Megalurus palustris. - "
- ✓ Acanthopneuste borealis. - In
- ✓ habits it resembles Regulus calendula
- ✓ Artamus leucorhynchus. - Abundant
- ✓ everywhere.

- ✓ Cestrophonus nasutus. - Everywhere
- ✓ Alouatta leucionensis "
- ✓ Hyloterpe albiventer. - Several
- ✓ pairs between Laog + L. Paoy
- ✓ One seen 2 days before at Laog
- ✓ Cinnyris jugularis. - Everywhere
- ✓ Motacilla ocularis. - One at
- ✓ ford of Laog R.. - Seen there
- ✓ again at evening, returning.
- ✓ Motacilla melanope. - Laog
- ✓ River + Paoy Lake.
- ✓ Dendrytes leucostriatus. - do
- ✓ Artamus ruber. - Everywhere
- ✓ Micra philippinensis "
- ✓ in suitable ground.
- ✓ Embryza - Has a
- ✓ note like Canary-bird's call
- ✓ Seen in hundreds but in
- ✓ small flocks. Everywhere
- ✓ Munia jagori. - Laog River
- ✓ + Paoy Lake
- ✓ Munia calanisi. - do
- ✓ Trichostema sinensis. - Everywhere

(33)  
✓ Lamprocoron panayensis. In  
✓ Zoag at Lake Pasay.  
Corone philippina. - Everywhere.

Hebr. 7, 1907 - Walked to the  
Foot hills in search of chickens

Among the birds seen were:

*Gurnix oculata*, One pair in trail

✓ *Onopeltia humilis*. - Que. in ro. S.

✓ *Halastur intermedius*. - Parent

✓ sitting on nest in tall salmangi

*Chaetura whiteheadi*. - Many.

*Pisticola* (red-headed), <sup>See specimens taken later</sup> blue on ridge

✓ *Hyloterpe albiventris*. One shot.

✓ *Cardaliparus elegans*. - One on ridge

*Peromyscus jugularis*. - One pair.

Memoranda

✓ *Oriolus chinensis*. - Note like Western <sup>magpie</sup> ~~magpie~~.

*Amprocorax panayensis* In Laga

*Falco communis*. - A young ♂

✓ made 2 strikes after a hem

✓ in a yard in ~~La~~soag, but missed.

✓ Herd of Monkeys (Cynomolgus) <sup>(34)</sup>  
✓ seen on the ridge.

[illegible]

✓ 1. *Yucca* *lanceolata* *Willd.*  
- *lanceolata* *Willd.*

✓ *Microtus pennsylvanicus*. - Abundant.

✓ all the ...

✓ for comparison as to 10 min

✓ sometimes seen together as the

road in the line separately

✓ moved for the road as we

drove by until the beaver

1. *... ..*

✓ ~~Scardaf~~ Chalcophaps indica

✓ *Turdus leucosomus*. - Abundant.  
Savilla.

✓ *Macropygia tenuirostris*. One at

✓ Gallus Gallus. - One near lighthouse.

- 35 Feb. 15. Soag to Nagpartian.  
 ✓ *Hypolimnitis* - Several  
 at Pasayun and Davila. One  
 near the lighthouse.  
 ✓ *Aegialitis* - The common  
 my-flower was seen near Davila.  
 ✓ *Actitis hypoleucos*. - Common.  
 ✓ *Poliolimnas sinensis*. - Seen at Bacara.  
 ✓ *Anas luzonica*. - Three near Pasayun.  
 ✓ *Centropus viridis*. - Abundant.  
 ✓ *Halcyon gularis*. Numerous to near  
 the lighthouse at Bojeador.  
 ✓ *Artamus leucorhynchus*. - Occasional flocks.  
 ✓ *Merops philippinus*. - Common to lighthouse.  
 ✓ *Circus aeruginosus*. - Two.  
 ✓ *Circus spilonotus*. - Several.  
 ✓ *Ataliactes intermedius*. - Abundant.  
 ✓ *Rhipidura nigritorquis*. - " "  
 ✓ *Cyrtocercus manillensis*. - Several.  
 ✓ *Hirundo gularis*. - Abundant.  
 ✓ *Hirundo javanica*. - Very abundant,  
 often perching in pairs on the  
 telegraph wire.

- (36)  
 ✓ *Leucocorvus sinensis*. - At Bacara.  
 ✓ *Copypicus mindanensis*. - One pair  
 at Davila.  
 ✓ *Salpinctes obsoletus*. - Abundant.  
 ✓ *Troglodytes aedon*. - " "  
 ✓ *Ptilinopus manilla*. - " , some seen  
 on the ocean beach driftlogs.  
 ✓ *Pratincola superciliosa*. - Common.  
 ✓ *Megascopus bitorquatus*. - Abundant.  
 ✓ *Phisaptes* and *Phisaptes* singing at  
 rough notes.  
 ✓ *Cephalophonus coccineus*. - Abundant.  
 ✓ *Thomomys mindanensis*. - " "  
 ✓ *Motacilla alba* <sup>mindanensis</sup> <sup>and</sup> <sup>trachus + olivaceus</sup> <sup>mindanensis</sup>. - Abundant.  
 ✓ *Eudynamis mindanensis*. - Abundant.  
 ✓ *Actitis hypoleucos*. - " "  
 ✓ *Misadira philippinensis*. - In waste places.  
 ✓ *Phidippa erythraea* } Abundant.  
 ✓ *Phidippa javana* }  
 ✓ *Phidippa javana* }  
 ✓ *Criolan chinensis*. - Abundant.  
 ✓ *Corone philippina*. - " "  
 ✓ *Lamprocorax philippinus*. - At Bacara

(37) Feb. 15, 1907. Lacey to Thompson. 1

*Stenopogon zigzagarius* - common.

*Acanthopneuste borealis* - 116

✓ a. rays & charging machine etc.

✓ Habit: semi-arboreal (leguminous scandent)

✓ *Charadrius leucivirens*. - *leucivirens*. - *leucivirens*.

*Andrena thymicola* F. & S. 1892

4. *truncata*. - One on sea beach

near Davila.

Scumburiza — — — — Glocka

numerous as far as lighthouse.

✓ Nagpartian, Febr. 15 to 17, 1907:

Birds seen: Pogos reported common.

Gallus gallus. — do

✓ *Osmotreron vernans*. - Abundant.

✓ *Chalcophaps indica*. — One seen.

✓ *Quopopelia humilis*. - Abundant.

✓ *Turtur dussumieri*. — "

✓ *Geopelia striata*. — "

*Ptyroherodia manillense*. - One shot.

✓ Xantholaema haematocephalum - The  
pounding notes of the Coppersmith  
are continually heard in the town.

✓ Lonicera. (Nagpartian Notes). - Philippinus. - Three in  
cotton trees in the town climensis!

✓ Lanius Oriolus 1. - Many  
seen and heard

✓ Tol. philippinensis. - About 100 about  
a single tree laden with large red flowers,  
singing, fighting, noisy. One specimen.

✓ Pycnonotus goram. - Common.

✓ Cephalophonus nasutus. - Abundant.

✓ Otomela lucionensis. — " "

Artamus leucorhynchus.—

✓ Oriolus chinensis. - Very abundant.

Corone philippinus. - common. <sup>my house.</sup>

✓ Absurdly tame. Stole civet's skull from ^

Leinypis jugularis. - Common!

✓ Dicæum pygmaeum - One on river.

✓ *Spilornis holospilus*. - One shot.

v. *Haliastur intermedius*. - Abundant.

✓ *Rhipidura nigritorquis*.— "

✓ *Megalurus palustris*. - Abundant.

✓ *Althaus rufus*. — 11

✓ Mammals. - Civets reported very abundant.

One shot Febr. 17th Paradoxurus

✓ Three herds of Monkeys seen Febr. 16, 1907

(39) February 19, 1907. - Rode with Mr. Auchterlonie to the Burdett manganese mines, at the extreme point of N. Luzon & returned, distance 6 miles. There fine high rock bluffs overlook the sea and a little fishing village.

Birds seen near the Burdett Mines:

- ✓ *Merops philippinus*. - Common.
- ✓ *Pratincola caprata*. - "
- ✓ *Cisticola* - "
- ✓ *Osmotreron <sup>vernans</sup> ~~apillaris~~* - "
- ✓ *Cinnyris whiteheadi*. - "
- ✓ *Anthus pusillus*. - "
- ✓ *Iole philippinensis*. - "
- ✓ *Pycnonotus goiavier* - "
- ✓ *Gallus gallus*. - One in trail.
- ✓ *Oriolus chinensis*. - Common.
- ✓ *Cephalophanes nactus*. - "
- ✓ *Otomela lucionensis* - "
- ✓ *Orthotomus <sup>chloronotus</sup> ~~ruficeps~~*. - "
- ✓ Several herds of Monkeys, rather dark.

(Nagpartian Notes.)

(40)

Birds noted in vicinity of Nagpartian:

- ✓ *Motacila melanope*. - One seen on the river, Feb. 19, 1907.
- ✓ *Cinnyris whiteheadi*. - Abundant. Utters a twittering note and frequents certain flowering trees in flocks. They flutter like Hummingbirds before the flowers, but only for a moment, and often alight. It is a beautiful sight when a flock is feeding.
- ✓ *Hyloterpe albiventris*. - Its common note is 4-syllable. Three level notes followed by an emphatic whip. It also sings prettily.
- ✓ *Orthotomus ruficeps* utters a series of clucks - practically a rattle. It is often heard in dry, barren rocky hills in this locality.
- ? *Callaeops <sup>periphatthalmica</sup> ~~periphatthalmica~~*. - On Febr. 20, saw a bird somewhat smaller than *Dialia pialis*. Color black, with pure white underparts a broad white stripe over each eye and a small

(41) white spot on each of its black wings.  
It was in the woods beside the river  
crossing, and quite tame. I had no gun.  
The appearance <sup>and actions</sup> reminded me of a Flycatcher.

✓ Pardaliparus elegans. - I saw  
one at the Burdett antimony  
mine, extreme W.W. point of Luzon,  
Febr. 19, 1907. Quite numerous  
at Nagpartian.

✓ Geopelia mindanensis. - Pair  
seen at Nagpartian Febr. 20, 1907.

✓ Anas luzonica. - Seriaes brought  
in 3 Febr. 20, 1907, Darigayo Lake.

✓ Turnix fasciatus. - One shot Febr. 20.

✓ Creus spilomotus. A gray  
Harrier is often seen here.

✓ Osmotreron versans. - Very abun-  
-dant. On Febr. 21, I shot 4, all  
males, 3 at one shot, out of a flock  
of about 15 feeding in low trees.

✓ Cisticola \_\_\_\_\_. - The same  
species taken at Laoag is abundant.

✓ Collocalia whiteheadi. - Abundant.

✓ Hirundo gatturalis. Febr. 21.

✓ Gallinula chloropus. - One on a blue  
of the river at Nagpartian. (42)  
Feb. 21, 1907.

✓ No Kingfisher seen here!

✓ Dicaeum pygmaeum. - One Febr. 21, 1907.

✓ Oriolus chinensis utters a scream  
exactly like that of Smygnathus lucionis.

✓ Salangana <sup>drooping</sup> <sup>white rumped</sup>. - Many  
seen Febr. 20 + 21, 22, 23,

✓ Pratincola capitata is fairly common.

✓ Haleyon gularis. - One seen Febr. 21,  
is the only Kingfisher seen at Nagpartian.

✓ Cyornis philippinensis. - One Febr. 23.

✓ Rhipidura blue + red. - 2 pairs "

✓ Lalage niger. - One shot Febr. 23.

✓ Dicaeum. - Both small species are common.

✓ Xantholaema haematacephala. At  
Nagpartian, during a period of  
heavy winds, these birds were  
scarcely in evidence; but when  
calm periods arrived, the call  
was heard from cotton-tree tops  
all about the town. The bird is  
restless and every cessation of  
its coppersmithing <sup>usually</sup> indicates a change of

- (43) (Nagpartian notes.)  
 of perch; but the bird is not shy,  
 ✓ prefers openings with a few  
 trees to the dense forest.
- ✓ Yungipicus validirostris. - On the NW  
 point of Luzon, N. of Nagpartian I saw  
 two, Feb. 26, 1907. The only Woodpecker thickf.
- ✓ Halcyon gularis. - Not uncommon on  
 several streams of this vicinity. Its  
 harsh notes often heard in Nagpartian.
- ✓ Cyornis philippinensis. - Six seen Feb. 26.  
 The male of a pair seen together sang  
 a pretty little ditty. Always found in  
 shady places, not in openings. Shots are  
 nearly always had at too short ranges.
- ✓ Orthotomus \_\_\_\_\_. - No. 14905 is  
 quite common. Its note a short rattle.
- ✓ Pardaliparus elegans. - A number  
 have been seen, none with light backs.
- ✓ Turnix fasciata. - A pair seen on  
 the ground where cogon had been burned  
 off. Hard to flush. Flies high & drops  
 suddenly like a Woodcock. Often  
 seen in <sup>plowing</sup> road and trails leading from it.

- (Nagpartian notes.)  
 ✓ Turnix acellata. - Several have (44)  
 been seen in the Bangui road  
 near Nagpartian. They always run  
 into the forest jungle, where I shot  
 one, from the road side, Feb. 26, 1907.
- ✓ Dicaeum ~~magnum~~ <sup>magnum</sup> ~~magnum~~ common.
- ✓ Black bird size of Cyornis philippin-  
ensis, attitudes of Rhipidura. Inhabits  
 jungles with old dead trees and  
 fallen timber. Utters a queer note,  
 and whistles a long, singular ditty.  
 I noted, Feb. 26, that it has a long  
 white mark on wing. Seen at Marivelo  
 in Aug., 1903, where I <sup>first</sup> heard its very  
 peculiar whistle. I think I have  
 heard it on the Island of Mindanao.
- ✓ Centropus viridis is common.
- ✓ Anthracoceros. - Dozens heard Feb. 26th.
- ✓ Hirundo javanica is not uncommon.
- ✓ Collocalia whiteheadi. - Abundant.
- ✓ Huttonia rufus is always to be seen  
 in considerable numbers on the  
 Nagpartian plaza.

(45)

(Nagpartian Notes.)Rhipidura blue + red

- The usual note of this beautiful Jan-tailed flycatcher is a snickering similar to that of the Chipmunks (Eutamias), in addition to which it utters a loud call, and various other notes.

✓ Orthotomus (No. 14981) - One of the most remarkable notes one hears in the Philippine woods is the thin warble of this tailorbird, interspersed with hollow clicks and its common rattle. The effect of the song is very remarkable.

Leptomolgus philippinensis. - Each of the female Monkeys shot contained one foetus, varying in size from near maturity to (Houm.) very small (in a youngish individual killed March 1).

✓ Moh-sahng is the Ilacano

name for Viverra zibetha. (46)

✓ Xantholæma haematocepalum. This comical little, handicapped by a prodigious head and beak and a little bobbed tail, clothed in a brilliant uniform of red green and gold, is really abundant in Nagpartian. It likes a prominent rostrum on some tall tree bare of leaves, whence he beats his metallic, which has given him his name "Coppermouth". Usually one is seen on a tree; but the mate may be heard pounding away on some neighboring treetop. Often the two join and sit so close together that both fall to one shot. Though several pairs are often heard in the town at one moment, I have



(47) not seen more than two together except on March 4, 1907, when seven were hammering away in a cotton-tree close beside the house in which I lived.

Butorides javanica. - One March 1st.

Antigone sharpei. - This species has been seen by Mr. F. D. Burdett, at Agraga, about 5 miles from Nagpartian. It is quite well known to the natives.

Halcyon chloris. - Two seen at the mouth of Boran River, NW. Luzon, Febr. 25, 1907.

Halcyon gularis is common at Nagpartian where no other Kingfisher was seen.

Temberiza pusilla. - A flock was seen at Nagpartian March 5, 1907.

Alcedo viridis. - Two at Nagpartian, in March, 1907.

Large Warbler. - Seen at Nagpartian, <sup>March 8th.</sup>

(48)  
34 miles from Nagpartian.  
✓ Halcyon chloris. - Two seen at the mouth of Boran River, NW. Luzon, Febr. 25, 1907.  
✓ Halcyon gularis. - One seen at Nagpartian, March 1st.  
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17 (49) (Nagasaki 10,000 Mar. 9th)

*Agrotis trivittata* - 1000

11/11/11

*Hypotaenidia philippinensis*

*(Faint handwritten notes)*

Богородица, Св. Дух  
и Пророк

*Polidroma senilis* - common

✓ *Quercus agrifolia*

✓ The quality of the work is

the river of our beach.

✓ *Arctostaphylos* - do  
✓ *Arctostaphylos* - do

Alcedo coronatus. - Black,

✓ about the cariboo near Salmon  
the other for the same purpose

Chlorophyll

*Hebertichia tenuicollis*. -- One

on sea beach near Durula.

name: James Lewis - class: (50)

✓ *Halcyon gularis*. - Common

✓ *Thalictrum flavum* - Anc. Boran K

✓ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

✓ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

Quittenbaum haemato. glab. - 12

*Myrica carolinensis*, L.

✓ Long Island Sound Boat.

✓ Hornero guthriei, 1963  
✓ Hornero guthriei, 1963

✓ Horn - 1/2 lb. - 4000

on the subject of the reconstruction  
of the British Empire in India

we highlighted a ~~few~~ c. tree

St. John's / Holy Innocents, 1890

☒ 1 - 10

at home & from September  
to December & January.

11



✓ *Antigone* *soularis* is now too fat to make good skins.

Several specimens of *Antigone*.

✓ *Antigone* is the *Antigone* name of a large bird skinned in *Antigone sharpei*.

✓ [Note: Mr. Grigor has a skin of *Limosa novaezealandiae* from *Guigo I.*]

Near Batavia. March 7, 1907

✓ Shot a *Hypotaenidia striata*, but it escaped wounded.

71 Nagpartian, Locos Norte, Luzon, P. I. Febr. 26, 1907.

6389. *Paradoxurus philippinensis* ♂ ad. Skin and skull, dried.

Nagpartian. Febr. 27, 1907.

6390 *Cynomolgus* ♂ ad. Skull only

6391 " ♀ ad. do

6392. " ♀ fortis, of No. 6391. Skin & skull, etc.

Nagpartian. March 1, 1907.

6393 *Cynomolgus* ♀ ad. Skull only, Contained one large foetus.

6394 " ♀ ad. do " "small " "

Nagpartian. March 2, 1907.

6395 *Cynomolgus* ♂ im. Skull only.

6396 " ♀ ad. do

Nagpartian. March 3, 1907.

6397. *Cynomolgus* ♂ ad. Skull only.

6398. *Mus* ♀ ad. 377; 203; 208; 41; 50; 16; 21.

Contained 4 foetuses.

March 11, 1907.

6399. *Mus* ♀ ad. 365; 203; 208; 39; 50; 18; 23.

(83)  
Species new to my collection.

1. *Turnix fasciata*
2. " *ocellata*
3. *Hypotaenidia philippinensis*
4. *Fulica atra*
5. *Ardetta sinensis*
6. ? *Dendrocygna (viduata?) arcuata?*
7. *Mareca penelope*.
8. *Fuligula fuligula*
9. *Falco peregrinus*
10. *Bolbopsittacus lineolatus*
11. *Zonotrichia philippinensis*
12. *Caprimulgus griseatus*
13. *Elanoides sinensis*
14. *Hirundo striolata*
15. *Gerygone simplex*
16. *Calliope calliope*
17. Warbler, large. *Horornis*
18. " , small. *Horornis*
19. *Dicaeum pygmaeum*.
20. "
21. *Crinomyia whiteheadi*
22. *Motacilla ocularis*

(84)

Febr. 5, 1907

2. *Iguana*, 1060 mm.

Nagpartian Feb. 15, 1907

Data sent to Mr. [unclear]  
[unclear]

23. *Emberiza*

24. *Spodiopsar cineraceus*

25. *Crotopelia humilis*

*canturiensis*

*minuta*



(87)

Ilocos Norte Province,  
Dingras, Luzon, P. I.

6370 Rat

Sex, im. ad.

6371 "

♀ ad.

6372 "

♂ ad.

Ilocos Norte Province,

Jan. 15, 1907.

6373 "

Laoag, Ilocos Norte Province,

6373. ~~Mus alexandrinus~~

♀ ad.

6374. Mus

♂ ad.

6375 "

♂ ad.

(Nos. 6373, 6374, and 6375 had

San Miguel, Febr. 3, 1907.

6376 Spectrum

♀ ad.

6377 "

♂ ad.

6378 "

♀ ad.

6379 "

Footed of above no.

6380 "

" " "

Paoay Lake, near Laoag.

6381 Mus.

♀ ad. 352; 104

While waiting for ducks near  
up and out among the small <sup>thorny</sup> branches  
have done.

January 18, 1907 (88)

ear exposed, 360; ear, 14;  
Head, 23; c. cr., 11; c. nuch., 14;  
1.30; 1.51; 10.50.92;  
75.

26,  
Luzon P. I., Jan. 1907.

398; 198; 201; 43; 53; 18.5; 23.

335; 176; 1.4; 37.5; 48; 17.

About same size as above.  
the nearly-dry skins carried off by a cat.

Ilocos Norte Province, Luzon Id., P. I.

One lone footed.

6378. In alcohol.

6376. do

Ilocos Norte, February 5, 1907.

191; 41; 47; 15.5; 20.

some bamboo this Rat climbed high  
ches as freely as a squirrel could



(89)

Ilocos Norte Province, Luzon

Feb. 14, 1907

6382 Skull, etc. of *Artibeus* *Equus*6383. Skull of *Lamachus* *Hog. Sus*

Ilocos Norte Province,

No. 6384

6384 *Urocyon* *Urocyon*

No. 6385

No. 6386

Ilocos Norte Province,

No. 6387

6385 *Cynomolgus* *Cynomolgus*

6386

6387 *Cynomolgus philippinensis*. *Ad.*

1125; 650; 150; 57; 30; 39;

length, 109; manus width, 42;

breadth across both eyes, 51;

Nagpartian. Feb. 26, 1907.

6388 *Cynomolgus philippinensis*. *Ad.*

10; 54; 52; 102; manus length 95;

br. ac. both eyes, 42. These  
same order as those of

(90)

Hog. *Sus*

Feb. 17, 1907.

1125; 650; 150; 57; 30; 39;

length, 109; manus width, 42;

breadth across both eyes, 51;

weight estimated at 17 pounds.

Feb. 21, 1907

Ad. Skin + skull, dried;

Ilocos Norte Province,

Nagpartian. Feb. 24, 1907. Skin + skull.

diameter of eye, 11.2; manus,

length, 68; ear, 130

length, 42; pes, width at anterior

of chest, 400; girth of neck, 210

Weight estimated at 17 pounds.

Weight estimated at 9 pounds.

1000; 580; 600; 131; 130; 32; 35;

35; pes, w. etc., 35; g. ch., 310; 190;

measurements are taken in the  
No. 6387.

(91)

Currimao, Ilocos Norte Province, Luzon, Jan. 14, 1907.

- 14677 *Halcyon gularis* ad.  
 14678 " " ♂ ad.  
 14679 *Cephalophonus nasutus* ♀ ad.  
 14680 *Turtur dussumieri* ♂ ad.  
 14681 " " ♀ ad.  
 14682 *Onopopelia nympha* ad.  
 14683 *Chalcophaps indica* ♀ ad.  
 14684 *Calliope calliope* ad.  
 14685 *Megalurus palustris* ♂ ad.  
 14686 *Copsychus mindanensis* ♂ ad.  
 14687 *Copsychus philippinensis* ad.  
 14688 *Egialitis* ad.  
 14689 *Acridotheres tristis* ad.  
 14690 *Budytes leucostriatus* ad.  
 14691 *Puffinella capensis* ♂ ad.  
 14692 *Falco peregrinus* ♂ juv.  
 14693 *Coturnix sinensis* ♂ ad.  
 14694 *Hirundo atricapilla* ♂ ad.

Lugo R. above Padanan, Luzon

Jan. 17, 1907

Lugo R. below Padanan

Jan. 15, 1907.

(93) Laoag, Ilocos Norte Province, Luzon, P.I. Jan. 19, 1907. <sup>(94)</sup>

- 14695 *Halkyon gularis* ad.  
14696 " " ♀ ad.  
14697 " " ♂ ad.  
14698 *Centropus viridis* ♀ ad.  
14699 " " imm.  
14700 " " ♀ ad.  
14701 *Megalurus palustris* ♂ ad.  
14702 *Cephalophonus nasutus* ♂ ad.  
14703 *Otonda lucionensis* ♀ im.  
14704 *Muraea philippinensis* ♀ ad.  
14705 *Calliope calliope* ♂ ad.  
14706 *Anthus rufulus* ♂ ad.  
14707 *Egialitis* ♂ ad.  
14708 *Pratincola caprata* ♂ ad.  
14709 *Hirundo gutturalis* imm.  
14710 *Clivicola sinensis* ♂ ad.  
14711 " " ♀ ad.  
14712 " " ♀ ad.  
14713 *Cisticola exilis* ♂ ad.  
14714 *Dicaeum pygmaeum* ♀ ad.  
14715 *Gerygone simplex* ♂ ad.

Iris dark red.

do

Albino. Iris red. With the above.

(95) Laoag. Jan. 20, 1907.

- 14716 *Halcyon zularis* ♂ ad.  
14717 *Alcedo bengalensis* ♂ im.  
14718 Warbler. *Horornis canturinus* ♂ ad.  
14719 *Emberiza sulfurata* ♂ ad.  
14720 " " ♂ ad.  
14721 " " ♂ ad.  
14722 *Anthus rufulus* ♂ ad.  
14723 " " ♂ ad.  
14724 " " ♂ ad.  
14725 *Actitis hypoleucos* ♂ ad.  
14726 *Geopelia striata* ♂ ad.  
14727 *Budytes leucostriatus* ♂ ad.  
14728 *Cephalophonus nasutus* ♂ ad.  
14729 *Otomela lucionensis* ♂ ad.  
14730 *Pratincola caprata* ♂ ad.  
14731 *Mirafra philippinensis* ♂ ad.

Laoag. Jan. 21, 1907.

- 14732 *Clivicola sinensis* ♂ ad.  
14733 *Emberiza sulfurata* ♂ ad.  
14734 " " ♀ ad.  
14735 " " ♀ ad.

(96)

Sitting on 2

These measure 22.5 x 17 + 24 x 17.5

(97) Laoag, Jan. 21, 1907

- 14736 *Cephalophonus nasutus* ♂ ad.  
14737 " " ♀ ad.  
14738 *Actitis hypoleucos* ♂ ad.  
14739 *Alcedo bengalensis* ♂ ad.  
14740 *Acanthopneuste borealis* ♂ ad.  
14741 *Cisticola exilis* ♂ ad.  
14742 *Pratincola caprata* ♀ ad.  
14743 " " ♀ ad.

~~14744~~ Laoag, Jan. 22, 1907.

- 14744 *Rail hypoleucoides philippinus* ♂ ad.  
14745 *Centropus viridis* ♂ ad.  
14746 *Geopelia striata* ♀ ad.  
14747 " " ♂ ad.  
14748 " " ♂ ad.  
14749 " " ♀ juv.  
14750 *Cephalophonus nasutus* ♂ ad.  
14751 " " ♀ ad.  
14752 *Otomela lucionensis* ♂ ad.  
14753 *Anthus rufulus* ♀ ad.  
14754 *Emberiza sulfurata* ♀ ad.  
14755 " " ♀ ad.

(98)

Dr. ...

base, ...

ocul. ...

olive ...

200; 130; 470; 140; 25;

30; 43; 41 mm. ...

= ... and

... ..

... ..

... ..

(99) (Laoag. Jan. 22, 1907.)

- 14756 *Alcedo bengalensis* ♂ ad.  
14757 *Pratincola caprata* ♀ ad.  
14758 Warbler <sup>*Horornis canturinus*</sup> ad.

Laoag. Jan. 23, 1907.

- 14759 *Otomela lucionensis* ♀ ad.  
14760 *Munia cabanisi* ♂ ad.  
14761 " " ad.  
14762 " " ad.  
14763 " " ad.  
14764 " " ad.  
14765 " " ad.  
14766 " " ad.

Vintar Lake. Jan. 24, 1907.

- 14767 *Chalcophaps indica* + im.  
14768 *Ptilinopus cinereus* ♂ ad.  
14769 *Gallinula chloropus* + ad.  
14770 " " ♂ ad.  
14771 " " ♂ im.  
14772 *Podiceps philippinensis* ♀ ad.  
14773 " " ♀ ad.  
14774 *Centropus javanica* ♂ im.

(100)

Laoag. Jan. 25, 1907.

- 14775 *Turnix fasciatus* ♀ ad.  
 14776 *Spodioparus cineraceus* ♂  
 14777 *Emberiza sulfurata* ad.  
 14778 " " ad.

- 14779 *Chloroceryle sinensis* ♂ ad.  
 14780 *Cephalophonus nasutus* ♀ ad.  
 14781 *Otocoris lucionensis* ♂ ad.  
 14782 *Centropus javanicus* ♂ im.  
 14783 *Merops philippinus* ♀ ad.  
 14784 *Megalurus palustris* ♂ ad.

Laoag. January 26, 1907.

- 14785 *Corone philippina* ♀ ad.  
 14786 *Centropus viridis* ♂ im.  
 14787 *Centropus viridis* ♀ ad.  
 14788 *Halcyon gularis* ♂ ad.  
 14789 " " ♂ ad.  
 14790 *Cephalophonus nasutus* ♀ ad.  
 14791 " " ♂ ad.  
 14792 *Megalurus palustris* ♂ ad.  
 14793 " " ♂ ad.  
 14794 *Geopelia striata* ad.

Iris grayish white. Top of crown & nape  
 olive; sides of neck & all of mandible  
 (except anterior tip which is olive) yellow  
 Feet greenish yellow; claws horn color.

Sexes by size

Albino. Iris red. Bill & feet pale.

- 14795 *Turnix ocellata* ♂ ad. }  
 14796. " " ♀ ad. }  
 14797 *Caprimulgus griseus* ♀ ad.  
 14798 *Egornis philippinensis* ♂ ad.  
 14799 *Munia oryzivora* ♂ juv.  
 14800 " " juv.  
 14801 " " juv.  
 14802 *Munia jagori* ad.  
 14803 " " ad.  
 14804 *Munia cabanisi* ad.

Sawai Lake

- 14805 *Anas luzonica* ♂ ad  
 dark plumbeous, palest at  
 of mandibles. Feet purplish  
 border of lower third of  
 claws plumbeous-black. 605;  
 46; 63; head of tibia to end  
 from extreme base, 60; nail,  
 greatest width of bill, 23.  
 14806. *Mareca penelope* ♀ ad.  
 gray squarely tipped with black  
 with bluish gray; interramal membrane

Iris yellow. Bill and feet greenish yellow; claws horn color.

January 27, 1907.

Iris yellowish brown. Bill base, with black nails at tips gray, blackish down the anterior tibia and top of middle toe. 1020; 260; 130; 5.2 (median line); of middle claw, 202; maxilla 11 x 8.5; height of bill at base 23; <sup>claw</sup>

Bill with maxilla light bluish; mandible purplish black spotted with bronze purplish black. Iris



(105)

- reddish brown. Feet grayish plumbeous with blackish web.  
and claws. 475; 815;  
8.5 x 6.5; 17; 18.  
14807. *Fuligula fuligula*. ♂ ad.  
the insides yellowish brown -  
plumbeous-gray. Gen.  
14808. *Fulica atra* ♀ ad. Iris  
Feet brownish gray, dusky  
both inner + outer side.  
Length to end of longest claw 560;  
(chord), 52; 58; 87. Very  
Laos, Laos Norte  
14809. Rail *Hydroedra philippensis* ♀ ad.  
*Horornis minuta*  
14810 Brown-headed Warbl. - ad.  
14811 *Oriolus chinensis* ♀ ad.  
14812 " " ♀ juv.  
14813 *Ceyx philippensis* ad.  
14814 *Phipidura nigritorquis* ♀ ad.  
14815 *Megalurus palustris* ad.  
14816 *Cephalophonus nasutus* ♀ ad.  
14817 *Munia cabanisi* sp? ad.  
14818 " " ♀ ad.  
14819 " " - im.  
14820 " " ♀ im.

sh plumbeous with blackish web.  
250; 113; 34; 39; 48; 160; 40

Iris red. [Females + young males had  
Bill blue tipped with black. Feet

red. Bill + frontal shield white  
at points, striped with yellow down  
Claws plumbeous-black.  
415; 725; 208; cul. + frontal shield  
fat

Luzon, P. I. Jan. 29, 1907.

Iris red Bill purplish olive, venaceous  
at base of mandible. Feet and  
claws olive-gray. [unclear]

} Parent + young.

In alcohol.

(Laoag. Jan. 29, 1907.)

14821. *Munia cabanisi*

14822. *Turnix fasciata*.

Laoag. Jan. 30, 1907.

14823. *Emberiza sulfurata* ♂ ad.

previously shot had collar

Laoag. Jan. 31, 1907.

14824 *Poliollinax cinereus* ♂ ad.

14825 *Turnix fasciata* ♂ ad.

14826 " " ♂ ad.

14827 *Geopelia striata* ♂ ad.

14828 " " ♀ im.

14829 *Excalfactoria lineata* ♂ (ad?)

Mouth of Laoag River

14830 *Emberiza sulfurata* ♂ ad.

14831 " " ♂ ad.

14832 *Pratincola caprata* ♀ ad.

14833 *Anthus rufulus* ♂ ad.

14834 *Cisticola exilis*. ? ad.

14835 Warbler (large) ♀ ad.

14836 Warbler (small) ♀ ad.

14837 *Alcedo brughaliensis* ♀ im.

In alcohol.

do

Prof. on island rice. In time  
only fine grass & cois.

Febr. 2, 1907.

(Feb. 2 - Continued)

- 14838 *Collocalia whiteheadi* ♂ ad.  
 14839 *Hirundo gutturalis* ♂ ad.  
 14840 *Chlorodreptes pluvialis* ♀ ad.  
 14841 " " ♂ ad.  
 14842 " " ♂ ad.

Laoag, Febr. 3, 1907.

San

- 14843 *Ortobopelia humilis* ♂ ad.  
 14844 " " ♀ ad.  
 14845 *Aegialitis* ♂ ad.  
 14846 *Poliolimnas cinereus* ♂ ad.  
 14847 *Pycnonotus goiavier* ♂ ad.  
 14848 *Otona lucionensis* ♀ im.  
 14849 *Petrophila manila* ♀ im.  
 14850 *Halcyon gularis* - ad.

February 5, 1907. Ilocos

- 14851 *Dendrocygna arcuata* ♀ ad.  
 14852 *Ardetta sinensis* ♀ ad.  
 14853 *Poliolimnas cinereus* ♂ ad.  
 14854 *Fulica atra* ♀ ad.  
 14855 *Gallinula chloropus* ♀ ad.  
 14856 *Turtur dussumieri* ♀ ad.  
 14857 *Gallinago megala* ♀ ad.

Miguel Ilocos Norte, Luzon, P.I.

Norte. Ibaog Lake 8 m. S. of Laoag.

Breeding.

Long sharp shoulder spurs.

110 Ilocos Norte Province, Luzon, P.I.  
Laoag, Febr. 6, 1907.

- 14858 *Motacilla ocularis* ♀ ad.  
 14859 " " 2 ad.  
 14860 " " ♀ ad.  
 14861 " " ♀ ad.  
 14862 " " ♀ ad.  
 14863 " " ♀ ad.  
 14864 *Motacilla boarula melanops* ♂ ad.  
 14865 *Budytes flavus leucostratus* ♂ ad.  
 14866 *Alcedo bengalensis* sex?  
 14867 Small brownish-headed Warbler ♀ ad.  
 14868 *Limnornis green-legged* ♂ ad.  
 14869 *Aegialitis* ♀ ad.  
 14870 *Chlorodreptes fluvialis* ♀ ad.

Laoag, Febr. 7, 1907.

- 14871 *Halcyon gularis* ♂ ad.  
 14872 *Hyloterpe albiventris* ♀ ad.  
 14873 *Cyornis philippinensis* ♀ ad.  
 14874 *Lalage niger* ♂ ad.

Laoag, February 8, 1907.

- 14875 *Cisticola exilis* ♀ ad.  
 14876 " " ♂ ad.

- 14877 *Cinnypis jugularis* (112) ♂ ad.  
 14878 *Dryzomus simplex* ♀ ad.

- 14879 *Munia cabanisi* ♀ ad.  
 14880 " " ♂ ad.  
 14881 " " ♂ juv.  
 14882 " " 2 juv.

Laoag, Feb. 12, 1907.

- 14883 Warbler *Horornis canturina* ♂ ad.  
 14884 *Acanthopneuste borealis* ♀ ad.  
 14885 *Anopopelia humilis* ♂ ad.  
 14886 *Halcyon gularis* ♀ ad.  
 14887 *Pycnonotus goiavier* ♂ ad.  
 14888 " " ♀ ad.

Laoag, Feb. 13, 1907.

- 14889 *Centropus viridis* ♂ ad.  
 14890 *Campylorhynchus sulfurata* ♂ ad.  
 14891 " " ♂ ad.  
 14892 " " ♀ ad.

Ilocos Norte Province, Luzon, P.I.  
Nagpartian, Febr. 16, 1907.

- 14893 *Osmotreron vernans* ♂ ad.  
 14894 " " ♀ ad.  
 14895 " " ♂ ad.  
 14896 *Anopopelia humilis* ad.

(113) Nagpartian, Febr. 16, 1907.

- 14897 *Xantholaema haematocepalum* ♂ ad.  
14898 *Actinopus philippinus* ♀ ad.  
14899 *Actinopus philippinus* ♂ ad.  
14900 *Actinopus philippinus* ♂ ad.

February 17, 1907. Nagpartian

- 14901 *Spilornis holospilus* ♂ ad.  
14902 *Osmotreron vernans* ♂ ad.  
14903 *Hypothymis azureus* ♂ ad.  
14904 *Hyloterpe albiventris* ♂ ad.  
14905 *Orthotomus* <sup>Iris yellow-brown.</sup> ♂ ad.  
14906 *Hyloterpe albiventris* ♀ ad.  
14907 *Ardetta cinnamomea* ♀ im.  
14908 *Xantholaema* <sup>haematocepalum</sup> ♂ ad.

Febr. 18, 1907. Nagpartian.

- 14909 *Osmotreron vernans* ♂ ad.  
14910 *Cinnyris whiteheadi* ♂ ad.  
14911 " " ♂ juv.  
14912 *Rhipidura* (blue + red). ♂ ad.

Febr. 19, 1907. Nagpartian.

- 14913 *Onopopelia humilis* ♂ ad.  
14914 *Osmotreron vernans*. ♂ ad.

- 14915 *Cinnyris jugularis* (114) ♂ ad.  
14916 *Cinnyris whiteheadi* ♂ ad.  
14917 " " ♂ im.

Nagpartian. Febr. 20, 1907.

- 14918 *Turnix fasciatus* ♀ ad.

Nagpartian. Febr. 21, 1907.

- 14919 *Cyornis philippinensis* ♀ ad.  
14920 *Hypothymis azureus* ♂ ad.  
14921 *Rhipidura* <sup>cinnamomea</sup> <sup>blue + red.</sup> ♀ ad.  
14922 *Cinnyris whiteheadi* ♂ ad.  
14923 " " ♂ ad.  
14924 *Cinnyris jugularis* ♀ ad.  
14925 *Pycnonotus goiavier* ♂ ad.  
14926 *Osmotreron vernans*. ♂ ad.  
14927 " " ♂ ad.

Nagpartian. Febr. 22, 1907.

- 14928 *Artamus leucorhynchus* ♂ ad.  
14929 *Cinnyris whiteheadi* ♂ ad.  
14930 " " ♀ ad.  
14931 *Dicaeum pygmaeum*. ♂ ad.

Iris gray-brown. Bill black, plumbeous on basal half of mandible.  
Feet and claws olivaceous black.

115 (Nagpartian. Febr. 23, 1907.)

14932 *Cinnyris whiteheadi* ♂ ad.

14933 " " ♂ ad.

14934 " " ♂ ad.

14935 *Loriculus philippensis* ♀ ad.

14936 *Cinnyris whiteheadi* ♂ ad.

14937 *Geopelia striata* ♀ ad.

14938 " " ♀ ad.

14939 *Onopopelia humilis* ♂ ad.

Nagpartian. Febr. 23, 1907.

14940 *Cisticola exilis* ♀ ad.

14941 *Hyloterpe albiventris* ♂ ad.

14942 *Polioptila lunulatus* ♂ ad.

Iris very dark red-brown. Bill bluish white. at base, shading to plumbeous-black at tip. Feet greenish olive; claws olive-gray.

179; 338; 107; 46; 27.5; 13; 24.

14943 *Dicaeum jugmaeum* ♀ ad.

14944 *Pratincola caprata* ♀ ad.

14945 *Hypothymis azureus* ♀ ad.

14946 " " ♀ ad.

(Nagpartian. Febr. 23, 1907.)

<sup>Confirmed as fully developed adg. ♀</sup>  
14947 *Hyloterpe albiventris* ♀ ad.

14948 *Dicaeum jugmaeum* ♂ ad.

14949 *Iole philippinensis* ♂ ad.

Nagpartian, Ilocos Norte, Luzon. Feb. 24, 1907.

14950 *Gallus gallus*. ♂ ad. Iris orange.

Bill, with maxilla brown, yellow

on sides for basal half; man-

-dible yellow at base, horn

color at tip. Feet & claws gray.

670; 700 215; 390; 16; 64; 59;

spur, 25; greatest length of comb, 65.

14951 *Xantholaema haematoccephalum* ♂ ad.

14952 *Rhipidura cyaniceps* ♂ ad.

14953 " " ♂ ad.

14954 *Halcyon gularis* ♀ ad.

14955 <sup>greatest length 12 mm.</sup> *Hyloterpe albiventris* ♂ ad.

14956 *Cinnyris whiteheadi* ♂ ad.

14957 " " ♂ ad.

14958 " " ♀ ad.

14959 *Cinnyris jugularis* ♀ ad.

14960 *Turdix fasciata* ♂ ad.

<sup>(117)</sup>  
Nagpartian, Ilocos Norte. Febr. 25, 1907.

14961 *Lalage niger*. ♂ ad.

14962 " " ♀ ad.

14963 *Cyornis philippinensis* ♀ ad.

14964 *Osmotreron vernans*. ♂ ad.

14965 *Xantholaema haematocephalum*. ♂ ad.

180; 314; 91; 51; 19; 21; 21.5.

14966 *Xantholaema haematocephalum* ♀ ad.

174; 290; 86; 46; 20; 20; 21.

In this pair the soft parts are colored alike. Iris brown with a yellowish outer rim. Bill plumbeous-black, horn color at base of mandible. Naked skin around orbit purplish red, with a plumbeous spot below the eye.

Feet light vinaceous-red; claws plumbeous.

14967 *Centropus viridis* ♀ ad.

Nagpartian. Febr. 26, 1907.

14968 *Xantholaema haematocephalum* ♀ ad.

14969 *Yungipicus validirostris*. ♂ ad.

14970 *Turdix ocellata* ♀ (ad.?)

14971 *Xantholaema haematocephalum* ♂ ad.

Nagpartian. Febr. 27, 1907. 18

14972 *Xantholaema haematocephalum* ♀ ad.

14973 " " ♀ ad.

14974 " " ♂ ad.

Nagpartian. February 28, 1907.

14975 *Halcyon gularis*. ♀ ad.

14976 *Xantholaema haematocephalum* ♀ ad.

14977 *Orthotomus ruficeps* ♂ ad.

14978 *Corone philippina* ♂ ad.

14979 " " ♀ ad.

14980 *Hirundo javanica*. ♀ ad.

14981 *Orthotomus* ♂ ad.

14982 *Xantholaema haematocephalum* ♂ ad.

14983 *Cinnyris whiteheadi* ♀ ad.

14984 *Onopopelia humilis* ♀ ad.

Nagpartian. ~~Febr.~~ March 1, 1907.

14985 *Dicaeum papuense* ♂ ad.

14986 *Orthotomus* ♂ ad.

14987 *Cinnyris whiteheadi* ♂ juv.

14988 *Hyloterpe albiventris* ♀ ad.

14989 *Cinnyris jugularis* ♂ ad.

14990 *Poliolimnas cinereus* ♂ ad.

(119) Nagpartian March 2, 1907.

- 14991 *Rhipidura cyaniceps* blue + red. ♂ ad.  
 14992 *Hypothymis azurea* ♀ ad.  
 14993 " " ♀ ad.  
 14994 *Ceyornis philippinensis* ♀ ad.  
 14995 *Turnix fasciata* ♀ ad.  
 14996 *Pardaliparus elegans* ♂ ad.  
 14997 *Xantholaema haematocepalum* ♂ ad.  
 14998 White-brow ♀ ad.

Iris grayish brown. Bill black.  
 Feet and claws flesh color.

163; 230; 75; 75; 14; 23; 21.

Nagpartian March 3, 1907.

- 14999 *Centropus* ♀ im.  
 15000 *Hypothymis torquata* ♀ ad.

320; 483; 150; 67; 38; 48; 55.

Iris cherry red. Bill divaricous  
 black; inside of mouth salmon.

Legs, feet, + claws olive-gray.

- 15001 *Hirundo javanica* ♀ ad.  
 15002 *Hypothymis azurea* ♂ ad.

(Nagpartian <sup>Nagpartian</sup> ~~March~~ <sup>March</sup> 3, 1907.) (120)

- 15003 *Hypothymis azurea* ♀ ad.  
 15004 *Cinnyris whiteheadi* ♂ ad.  
 15005 " " ♀ ad.  
 15006 *Rhipidura cyaniceps* blue + red. ♀ ad.  
 15007 *Halecyon gularis* ♀ ad.  
 15008 *Iole philippinensis* ♂ ad.  
 15009 *Ceyornis philippinensis* ♂ ad.  
 15010 *Orthotomus* ♂ ad.  
 15011 *Kittowia* ♂ ad.  
 15012 *White-brow luzoniensis* ♂ ad.

- 15012 *Centropus* im.  
 15013 *Amoteron vernans* ♂ ad.  
 15014 *Pyroherodia manillae* ♂ ad.  
 Iris bright pale yellow. Bare  
 skin around eye greenish  
 yellow. Bill with maxilla olive-  
 brown, becoming almost black at  
 tip; mandible yellow at base,  
 shading to pale golden brown  
 apically. Bare tibia + heel joint



(121) dull yellow. Feet + claws  
(15014) grayish brown. 1040. 1475;  
390; 156; 136; 143; 147 mm.

bare tibia, 108; head of  
tibia to end of claws, 500;  
base of culmen to occiput, 72;  
tip of bill to occiput, 211;  
tip of bill to end of claws, 1415.  
length of longest head plume, 118.  
" " " chest " , 215.

Nagpartian. March 4, 1907.

15015 *Bolbopsittacus lunulatus*. ♀ im.  
Iris dark reddish brown. Bill  
with maxilla olive-plumbeous,  
mandible flesh color. Feet  
olive-green, claws plumbeous.  
Ova considerably developed.

Agraga. March 5, 1907.

15016 *Anas luzonica* ad.

Nagpartian. March 6, 1907.

15017 *Totanus ochropus* ♀ ad.  
Upper and under tail-coverts

all pure white. Tail-feathers  
all white except one or two<sup>122</sup>  
subterminal dark cross-bands.  
Iris dark brown. Bill olive-green.  
Legs + feet green; claws plumbeous.  
This species was seen at Trinidad  
Lake, Benguet, on December 3, 1905.

Nagpartian. March 8, 1907.

15018 *Geoprychus mindanensis* ♂ ad.

15019 *Yungipicus validirostris* ♀ juv.

A family of Woodpeckers  
was found in the river bottom,  
and this one was so young  
that I was able to catch it with  
my hand. It sat for a long  
time on a stub and uttered  
a squeaky rattle.

Ag. March 8, 1907.

15020 *Yungipicus validirostris* ♂ ad.

15021 " " ♂ im.

15022 *Corvus* ♂ ad.

15023 *Horornis canturiens* ♀ ad.

15024 " " ♂ ad.

(123)

8.1.1907

15025 *Pha. a. incerti*

♀ ad

15026

♂ ad

15027

♀ ad

15028

♂ ad

9.1.1907

15029 *Pha. a. incerti*

♀ juv

15030 *Pha. a. incerti*

♀ ad

15031

♂ ad

15032

♀ ad

15033

♂ ad

15034

♀ ad

15035

♀ ad

*Acrocephalus orientalis*

10.1.1907

15036 *Hypotaenidia philippensis*

♂ ad

15037 *Pha. a. incerti*

♂ ad

15038

♀ ad

15039

♂ ad

15040

♂ ad

15041

♀ ad

15042

♂ ad

15043

♂ juv

15044

♂ juv

12

(124)

12.1.1907

15044 *Acrocephalus orientalis*

♂ ad

15045

♀ ad

15046

♀ ad

15047

♀ ad

15048

♂ ad

15049

♀ ad

*Pha. a. incerti* 13.1.190715050 *Pha. a. incerti*

♀ ad

15051

♀ ad

15052

♀ ad

15053

♀ ad

15054

♀ ad

15055

♀ ad

15056

♀ ad

15057

♀ ad

15058

♀ ad

15059

♀ ad

15060

♀ ad

15061

♀ ad

15062

♀ ad

15063

♀ ad

(127)

15044

15045

15046

15047

(127)

Specimens collected to March 7, 1907.

Mammals - 46	48	(128)
Birds	341	381
Total	387	429
15058	6400	
14677	6352	
381	48	

Total No. of new species	116
No. collected	22
No. remaining of these: -	94
o Asiatic migrants -- about	24 winter
= Marine - - - - -	3
- Philippine species -- about	<del>55</del> 67 annual
	94

A list of 116 Birds which have been found in the Island of Luzon which I have not yet met with.  
(January 12, 1907.)  
✓ *Turnix fasciata* (Lemm.).  
✓ *Turnix ocellata* (Scop.).

- ✓ 129 *Surnix whiteheadi* Grant.  
 - *Surnix worcesteri* Mc Gregor.  
 - *Leucotreron marcheii* (Cust.).  
 ✓ *Hypotaenidia striata* (Linn.).  
 - *Hypotaenidia philippinensis* (L.).  
 - *Callina suryzonoides* (Lagr.).  
 - *Porzana umida* Pall.  
 - *Porzana plumbea* Gray.  
 - *Limnobaenus fuscus*  
 ✓ *Fulica atra* Linn.  
 = *Oceanodroma* sp.  
 = *Puffinus leucomelas* Temm.  
 o *Numenius arquata* (Linn.).  
 o *Archylocheilus subarquatus* (Gill.).  
 o *Actegone sharpei* (Günther).  
 o *Nycticorax nycticorax* (L.).  
 - *Lorsaeus* sp.  
 o *Stellanus stiliaris* (Linn.).  
 o *Nettion coromandelianus* (Günth.).  
 ✓ *Dendrocygna viduata* (L.).  
 o *Nettion crecca* (Linn.).  
 o *Dasila acuta* Linn.).  
 o *Querquedula querquedula* (L.).

- o *Spalula caespita* (Linn.).  
 ✓ *Fuligula fuligula* (Linn.).  
 = *Phalacrocorax carbo* (Linn.).  
 - *Leptotyrannus Kieneri* (Laf.).  
 - *Spizacus philippinensis* (Linn.).  
 - *Baza magnirostris* Gray.  
 - *Microhierax erythrogenys* (Vig.).  
 - *Falco ernesti* Sharpe.  
 - *Falco melanogenys* Gould.  
 - *Pseudopteryx philippinensis* Kaup.  
 ? - *Clus whiteheadi* (Grant).  
 ? - *Clus longicornis* (Grant).  
 ? - *Clus megalotis* (Gray).  
 ✓ - *Prioniturus luconensis* Steere.  
 ✓ - *Prioniturus montanus* Grant.  
 ✓ *Polioptila lunulatus* (Seep.).  
 ✓ *Loriculus philippensis* P.L.S. Müll.  
 # *Batrachostomus microrhynchus* Grant.  
 - ✓ *Aleyone cyanopictus* (Lagr.).  
 - ✓ *Ceryx melanura* Kaup.  
 - ✓ *Penelopides manillae* (Bodd.).  
 - ✓ *Caprimulgus grisceatus* Wald.  
 - ✓ *Caprimulgus manillensis* Wald.

- <sup>31</sup> *Hierococcyx sparveroides* (Vig.).  
 o *Chalcococcyx malayanus* (Raff.).  
 - *Centropus univirgatus* (Cab. & Heine).  
 - *Dasylophus superciliosus* (Curt.).  
 - *Lepidogrammus cuningi* (Fraser).  
 - *Microstictus funebris* (Valenc.).  
 - *Pitta kochi* Brüggem.  
 ✓ *Clivicola sinensis* (J. E. Gray).  
 ✓ *Hirundo striolata* Boie.  
     *"Marivale."*  
*Icyornis banyumas* (Horsf.).  
 - *Cyornis herioti* Wardlaw-Ramsay.  
 - ✓ *Muscicapula luzoniensis* Grant.  
 ✓ *Gerygone simplex* Cab.  
 - *Cyanomyias caelestis* (Tweeddale).  
 - *Geocophus rufus* (Gray).  
 - *Callaeops periopthalmus* Grant.  
 - *Terpsiphone affinis* (Blyth).  
 - *Rhinomyias insignis* Grant.  
 - *Abroornis olivacea* Moseley.  
 - ✓ *Artamides striatus* (Bodd.).  
 - ✓ *Edoliisoma caeruleus* (Blyth).  
 - *Pericrocotus novus* Mc. Gregor.  
*Pericrocotus cinereus* Lafr.

- *Salage melanoleuca* (Blyth).  
 - *Trema cyanogaster* Vigors. 32  
 - *Pseudotharrhaleus caudatus* Grant.  
 - *Zosterornis dennistouni* Grant.  
 - *Zosterornis nigrocapitata* (Steere) "Luzon?"  
 - ~~✓~~ *Zosterornis striata* Grant.  
 o *Oreocichla varia* (Pall.).  
 o *Turdus chrysolaus* Temm.  
 o *Turdus obscurus* Gmelin.  
 ✓ *Calliope calliope* (Pallas).  
 - ✓ *Cittocincla luzoniensis* (Kittl.).  
 o *Taxicola ornatrix* (Linn.).  
 o *Locustella lanceolata* (Temm.).  
 o *Locustella fasciolata* (Gray).  
 o *Aerocethalys sorgophilus* (Swinh.).  
 o *Tribura seebohmi* (Grant).  
 ✓ *Orthotomus chloronotus* Grant.  
 ✓ *Orthotomus derbianus* Moore.  
 ✓ *Horornis canturiens* (Swinh.).  
 ✓ *Horornis seebohmi* (Grant). W. Luzon.  
*Phyllergates philippinus* Hartest.  
 o *Otomela cristata* ("Phil. Ids.")  
 o *Otomela superciliosa* ("Phil. Ids.")

- 133
- *Hyloterpe philippinensis* Walden.
  - *Penthoris similarvatus* (Salv.)
  - *Rhabdornis mystacalis* (Temm.).
  - *Zosterops luzonica* Grant.
  - *Zosterops aureiloris* Grant.
  - *Zosterops meyeri* Bonap.
  - ✓ *Dicaeum obscurum* Grant.
  - ✓ *Dicaeum pygmaeum* (Kittlitz).
  - *Dicaeum xanthopygium* Lwerd.
  - *Dicaeum luzonicum* Grant.
  - *Piprisoma aeruginosum* B. & W.
  - *Eudrepanis jefferyi* Grant.
  - ✓ *Leinmyris whiteheadi* Grant
  - ✓ *Leinmyris flagrans* (Cust.).
  - ✓ *Motacilla bicularis*
  - *Anthus cerebro*
  - ✓ *Emberiza pusilla*
  - ✓ *Emberiza sulfurata*
  - *Chlorura brunneiventris* Grant
  - *Oriolus isabellae* Grant.
  - *Oriolus albiloris* Grant.
  - ✓ *Sturnia sinensis*

6352  
6352  
30

6352  
35  
14893  
14677  
216

Breake  
Patungui  
Davao

John Macdonald  
H. A. Macdonald, Supt. Ilocos N. Co.

Shells on hand at Nagpartian

Feb. 20, 1907.

Buck 30 metal  
no. 1... 1 paper  
" 4... 3 metal  
" 6... 4 "  
" 6... 14 paper  
" 7... 13 "  
" 8... 39 "  
" 12... 61 "  
Total 165

31  
13  
18

24  
42

319 (7.5 per day. 23-5)  
294  
260  
210

134

14940  
14893

Nagpartian 47  
Luzon 266  
Feb. 22 263  
Feb. 23 - 273

14950  
14677  
273

74 species  
25 new.

75 species  
284 Feb. 24

284 Birds  
35 mammals  
319

2.4  
42  
48  
96  
100.8